



Weekly Field Work Summary
22-26 October 2018
PFAS RI Field Program, Former Fort Devens, Massachusetts

1.0 WORK COMPLETED LAST WEEK

1.1 DPT Groundwater Profiling

Vertical profiling continued at AOC 75 and started at AOC 57 Area 3.

- 5703VP-18-02 completed. Samples collected from 12-16 to 72-76 ft bgs. Unable to recover a water sample at 77-81 ft bgs due to poor recharge. Refusal at 81 ft bgs.
- 5703VP-18-03 completed. Samples collected from 22-26 to 80-84 ft bgs. Refusal at 84 ft bgs.
- 75VP-18-01 completed. Samples collected from 22-26 to 102-106 ft bgs. Refusal was not encountered.
- 75VP-18-07 completed. Samples collected from 22-26 to 82-86 ft bgs. Refusal at 86 ft bgs.
- 75VP-18-05 started. Samples collected from 22-26 to 52-56 ft bgs. Additional samples will be attempted next week.
- 75VP-18-06 started. Samples collected from 12-16 to 72-76 ft bgs. Additional samples will be attempted next week.

1.2 Existing Well Sampling

Existing well sampling for Area 1 is complete.

1.3 Soil Sampling

No work conducted this week.

1.4 Surface Water and Sediment Sampling

A surface water and sediment sample will be collected from Balch Pond, once access to the pond is attained. This is the only remaining surface water and sediment sample that needs to be collected for Area 1.

1.5 Overburden Monitoring Well Installation

No work conducted this week.

1.6 Bedrock Monitoring Well Installation

No work conducted this week.

2.0 FIELD CHANGES

Approval of the revision to the methodology for collecting groundwater vertical profile samples at depths greater than 100 feet presented in the 15-18 October 2018 Weekly Field Summary was added to the field change log. The field change log is attached.

3.0 ANALYTICAL RESULTS

Analytical results received from October 20th to the 26th are attached (preliminary/unvalidated). The data include one sediment sample from Cold Spring Brook and samples from four existing monitoring wells at AOC 57.

4.0 RECOMMENDATIONS

No recommendations required at this time.

5.0 QUALITY CONTROL AND SAFETY

Daily QC review of field notes was performed by KGS. On-site assessment of quality and safety was performed on 22 October 2018 by the KGS. No safety issues or incidents occurred during the week.



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6.0 DELAYS/IMPACTS/ISSUES

- Vegetation clearing is required to access DPT locations at AOC 57 and 74. We are discussing clearing needs with MassDev.
- Some of the drilling locations will be revised based on results of utility locating activities, safety considerations, and physical access considerations. The specific revisions will be presented in future weekly reports.

7.0 WORK PLANNED FOR NEXT WEEK

7.1 DPT Groundwater Profiling

Continue DPT locations AOC 75 and commence at Grove Pond area. Five vertical profiling locations remain for AOC 74, three vertical profiling locations remain for AOC 75, six vertical profiling locations remain for AOC 57 Area 3.

7.2 Existing Well Sampling

No work planned.

7.3 Soil Sampling

No work planned.

7.4 Surface Water and Sediment Sampling

No work planned.

7.5 Overburden Monitoring Well Installation

No work planned.

8.0 FIELD SCHEDULE

The updated field schedule for the prior week and next three weeks is attached.



Field Change Log
PFAS Remedial Investigation Field Program
Former Fort Devens, Devens, Massachusetts

10/26/2018

Change No.	Date	Area	AOC	Location ID	Description	Action Taken
1	9/25/2018	1	57	57M-96-10X	Existing well blocked with roots/vegetation.	Sample will not be collected.
2	10/1/2018	1	57	57WP-05-01	Existing well could not be located.	Sample will not be collected.
3	10/5/2018	1	Grove Pond	92-5	Existing well is blocked with equipment and sample tubing could not be inserted.	Sample will not be collected.
4	10/5/2018	1	Grove Pond	92-2	Existing well is severely bent and a sampling tube could not be inserted to the well screen.	Sample will not be collected.
5	10/5/2018	1	75	75VP-18-09	The proposed location is within a high traffic area posing a health and safety risk.	Location was moved approximately 30 feet to the
6	10/19/2018	1	75	75VP-18-05	The proposed location is in an area too steep for the drill rig.	Location was moved approximately 50 feet to the north.
7	10/19/2018	1	74	74VP-18-04	The proposed location is within a storm water detention pond with steep sides that the drill rig cannot navigate.	Location was moved approximately 50 feet to the northeast.
8	10/24/2018	1	all	various	EPA and MassDEP approved revised method for collecting vertical profiling groundwater samples for intervals deeper than 100 feet that was recommended in the Weekly Field Work Summary for 15-19 October 2018.	Revised method for collecting vertical profiling groundwater samples for intervals deeper than 100 feet will be employed where applicable.
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Devens PFAS Remedial Investigation Field Work Schedule

Field Staff Schedule

29-Oct-18

Task	Start	Finish	10/22/2018	10/23/2018	10/24/2018	10/25/2018	10/26/2018	10/27/2018	10/28/2018	10/29/2018	10/30/2018	10/31/2018	11/1/2018	11/2/2018	11/3/2018	11/4/2018	11/5/2018	11/6/2018	11/7/2018	11/8/2018	11/9/2018	11/10/2018	11/11/2018	11/12/2018	11/13/2018	11/14/2018	11/15/2018	11/16/2018
Establish Staging Area	9/24/2018	10/19/2018																										
Existing Well Sampling	9/24/2018	10/5/2018																										
SW/SED Sampling	9/26/2018	10/3/2018																										
GW Profiling																												
DPT Rig 1	10/1/2018	12/5/2018	KA	KA	KA	KA	OJ			KA	KA	KA	KA	KA			KA	KA	KA	KA	KA			KA	KA	KA	KA	KA
DPT Rig 2	10/8/2018	12/5/2018	AK	AK	AK	AK	AK			GH	GH	GH	GH	DK			GH	GH	GH	GH	GH			GH	GH	GH	GH	GH
Soil Sampling	12/6/2018	12/21/2018																										
OB Monitoring Wells																												
Rig 1	1/2/2019	2/1/2019																										
Rig 2	1/2/2019	2/1/2019																										
OB Well Sampling	2/4/2019	2/8/2019																										

KA = Kevin Anderson (KGS)

MM = Melissa Miller (KGS)

BA = Brett Anchukaitis (KGS)

CV = Chris Vignola (KGS)

OJ = Owen Jackson (KGS)

DK = David Kortjohn (Jacobs)

AK = Alex Klisiaris (Jacobs)

GH = Garrett Hazebrouck (Jacobs)

Former Fort Devens, Data Loaded During Week Ending 10/26/2018

PRELIMINARY DATA

KOMAN, PFAS RI, Fall 2018 Monitoring Wells

AOC 57, Building 3713 Fuel Oil Spill Site

Locations: 57M-03-01X	57M-03-06X	57M-03-06X (FD)	57M-95-05X	57WP-06-03
Field Sample ID: 57M-03-01X-SEP18	57M-03-06X-SEP18	A1-MW-FD-09282018	57M-95-05X-SEP18	57WP-06-03-SEP18
Sample Begin Depth: 0	0	0	0	0
Sample End Depth: 0	0	0	0	0
Sample Date: 09/28/2018	09/28/2018	09/28/2018	09/28/2018	09/28/2018
M537 (ng/L)				
6:2 Fluorotelomer sulfonate (6:2 FTS)	17.0 U	19.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	8.70 U	9.60 U	9.50 U	8.90 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	8.70 U	9.60 U	9.50 U	8.90 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	8.70 U	9.60 U	9.50 U	8.90 U
Perfluorobutanesulfonic acid (PFBS)	33.0	8.50	9.20	1.20 J
Perfluorodecanoic acid (PFDA)	2.70	0.960 U	0.950 U	1.00 J
Perfluorododecanoic acid (PFDoA)	1.30 U	1.40 U	1.40 U	1.30 U
Perfluoroheptanoic acid (PFHpA)	120	62.0	64.0	2.10
Perfluorohexanesulfonic acid (PFHxS)	61.0	26.0	25.0	2.50
Perfluorohexanoic acid (PFHxA)	160	150	150	2.00
Perfluorononanoic acid (PFNA)	2.60	2.50	2.70	1.70 J
Perfluorooctanesulfonic acid (PFOS)	6.10	6.30	6.10	3.70
Perfluorooctanoic acid (PFOA)	100	68.0	71.0	3.80
Perfluorotetradecanoic acid (PFTA)	2.60 U	2.90 U	2.80 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.60 U	2.90 U	2.80 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.30 U	1.40 U	1.40 U	1.30 U

Former Fort Devens, Data Loaded During Week Ending 10/26/2018

PRELIMINARY DATA

KOMAN, PFAS RI, Fall 2018 Surface Water/Sediment

Cold Spring Brook

Locations: CSB-18-08

Field Sample ID: CSB-18-08-SED-SEP18

Sample Begin Depth: 0

Sample End Depth: 0

Sample Date: 09/26/2018

Gen. Chemistry (mg/kg)

Total Organic Carbon 42000

M537 (ug/kg)

6:2 Fluorotelomer sulfonate (6:2 FTS) 4.00 U

8:2 Fluorotelomer sulfonate (8:2 FTS) 2.00 U

N-ethyl perfluorooctanesulfonamidoacetic acid
(NEtFOSAA) 2.00 U

N-methyl perfluorooctanesulfonamidoacetic acid
(NMeFOSAA) 2.00 U

Perfluorobutanesulfonic acid (PFBS) 0.360 U

Perfluorodecanoic acid (PFDA) 0.400 U

Perfluorododecanoic acid (PFDoA) 0.400 U

Perfluoroheptanoic acid (PFHpA) 0.400 U

Perfluorohexanesulfonic acid (PFHxS) 0.150 J

Perfluorohexanoic acid (PFHxA) 0.400 U

Perfluorononanoic acid (PFNA) 0.400 U

Perfluorooctanesulfonic acid (PFOS) 1.00 U

Perfluorooctanoic acid (PFOA) 0.400 U

Perfluorotetradecanoic acid (PFTA) 0.600 U

Perfluorotridecanoic acid (PFTTrDA) 0.400 U

Perfluoroundecanoic acid (PFUnA) 0.400 U